SHARP®

VIDEO CASSETTE RECORDER

VHS
PAL

Model
VC-785X (NZ)

OPERATION MANUAL

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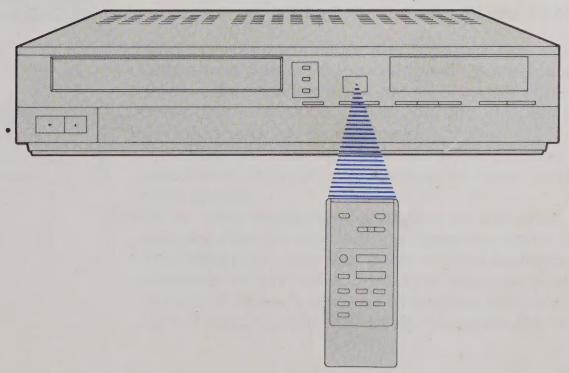


This VCR has outstanding features which allow you to relax and enjoy the home entertainment programmes of your choice.
Before using the unit, please read the operation manual carefully. Be sure to store this manual for future use as it will come in handy if you encounter any problem with the unit.

Features

1. **Super Auto Functions**
   Simply insert a cassette. You can enjoy a variety of convenient auto functions.

2. **Auto Return Function**
   Automatically rewinds a timer recorded programme to its start for immediate playback.

3. **Symbolic Operation Mode and Tape Running Display**
   Convenient indicators for operation mode, tape speed and direction at a glance.

4. **Multi-Functional Playback**
   Noiseless field still, frame-by-frame advance, variable fine slow and double speed playback.

5. **Beeper**
   An auditory operation indicator.

6. **14-day/4-programme, Daily or Weekly Programmable Timer**

7. **Simple Recording Timer (SRT)**
   Two-function easy-to-set timer; one for the immediate start and another for delayed start.

PRECAUTIONS

Important

Copyright may exist on material you wish to record. Copying such material without permission of the relevant licensees or owners of the copyright is prohibited by law. Sharp is not in a position to authorize the recording of copyright works and nothing in this operation manual should be read or implied as giving that authority.

Power Supply

The operating voltage of this unit is AC 240V, 50Hz.

Video Cassette Type

VHS
PAL SECAM

Only cassettes marked as shown on the left can be used with this deck.

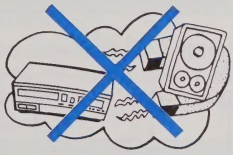
This VCR is not equipped with a main power switch. Accordingly, nominal current to drive the clock and dew prevention heater is drawn at all times when the power cord is plugged into a wall socket. If the VCR is not to be used for an extended period, be sure to unplug the cord.

Location and Handling

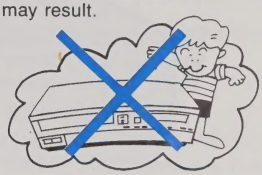
1. Air vents are provided in the VCR cabinet to prevent excessive temperatures inside the unit. Do not place your VCR in closed spaces, cover it, or otherwise block the vents.

2. Do not place the VCR in direct sunlight, near heat ventilators, or other heat sources.

3. Keep the VCR away from strong magnetic objects.

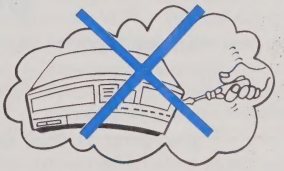


4. Do not insert or drop anything into the VCR through the air vents or cassette holder as circuits could short, the VCR could be damaged, or fire may result.

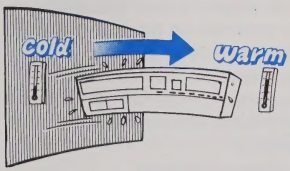


5. Do not place any object containing water or other liquids on the VCR. In the event water enters the cabinet, unplug the VCR and contact a qualified dealer or service centre immediately.

6. Do not remove the VCR cabinet. Touching parts inside the cabinet could result in shock and/or damage to the unit. For inspection and adjustments inside the cabinet, call upon a qualified dealer or service centre.



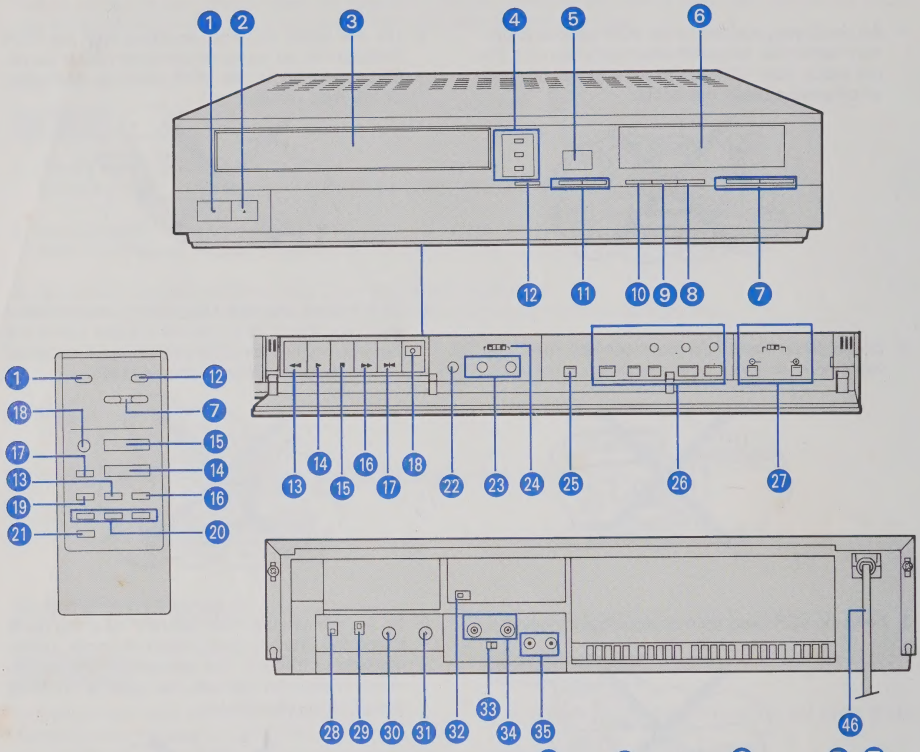
Moisture Condensation



Rapid temperature changes and storage or operation in extremely high humidity environments may cause "dew" to condense inside the VCR cabinet. Dew can cause serious damage to your tapes and the video heads. Should dew form inside the unit, the dew indicator will light and all normal VCR operations will be inoperable.

- If the dew indicator lights, wait until the moisture evaporates. When the power is on, the built-in dew prevention heater will evaporate the moisture more quickly.
- As an extra measure of protection for the video heads, wait another 5 minutes after the dew indicator goes out before using the VCR.
- The dew sensor may take a few minutes to detect moisture. Accordingly, when the VCR is first hooked up or when the power cord is plugged into the socket again, wait about 15 minutes and confirm that the dew indicator has not lit before attempting to operate the unit.

PART NAMES AND FUNCTIONS

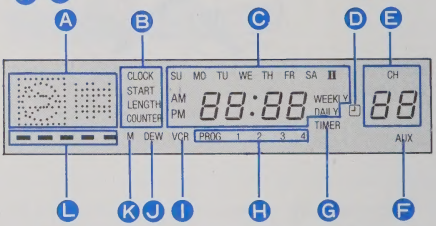


Ⓐ Operation mode indicators

Stop	□	Stop Pause	□ ▷▷
Play	▷	Fast Forward	▷▷
Rewind	◁◁	Forward Video Search	▷ ▷▷
Reverse Video Search	▷ ◁◁	Still	▷ ▷▷
Slow	▷	Frame Advance	▷ ▷
Record	○	Recording Pause	○ ▷▷

Ⓑ Indicates display modes.

Ⓒ Displays clock, counter, starting time or recording length.



Ⓓ Illuminates when SRT is set.

Ⓔ Channel display.

Ⓕ Illuminates when audio/video signals are input from an external source through the audio/video terminals on the rear panel.

Ⓖ Illuminates when timer is set.

Ⓗ Indicates preset programme numbers.

Ⓘ Illuminates when the TV/VCR selector is set to VCR or the unit is in the playback mode.

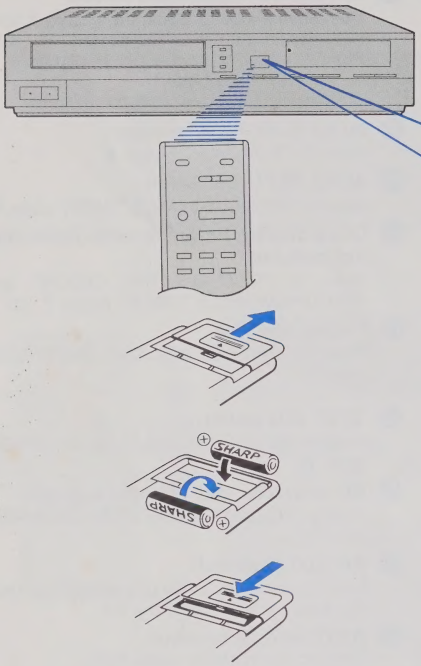
Ⓙ DEW indicator

Ⓚ Counter memory indicator

Ⓛ Tape Running Display—Lights in sequence according to the direction and speed of tape travel.

1. **OPERATE button**
   Clock display will work regardless of this button.
2. **EJECT button**
3. **Cassette holder**
4. **AUTO FUNCTION indicators**
   Indicates the selected AUTO FUNCTION mode. Refer to "PLAYBACK" and "PROGRAMMABLE TIMER," pages 8, 12.
5. **Photoreceptor window for remote control unit**
6. **Display**
7. **Channel selectors**
   Used for channel selection and "AUX IN" at the 16th position.
8. **COUNTER MEMORY button**
   Press to set the memory. the VCR will stop at "0000" when rewinding.
9. **COUNTER RESET button**
10. **COUNTER/CLOCK indication select button**
    Normal: Clock/Counter
    During Timer or SRT recording: Clock/Counter/Recording Length
11. **Simple Recording Timer buttons**
    Refer to "SIMPLE RECORDING TIMER," page 10.
12. **TV/VCR selector**
13. **REW/VIDEO SEARCH ◄◄ button**
    Press to rewind the tape or to reverse search for a specific scene.
14. **PLAY button**
15. **STOP button**
16. **FF/VIDEO SEARCH ►► button**
    Press to fast forward the tape or to search forward for a specific scene.
17. **PAUSE/STILL button**
    Press to temporarily stop recording or for still picture.
    (To prevent damage to the tape or heads the PAUSE/STILL mode will automatically be cancelled and the previous mode resumed if either mode continues for approximately four minutes.)
18. **REC button**
19. **F. ADV button**
20. **SLOW buttons**
    Press for slow playback. Press the + or − button to speed up or slow down slow playback speed.
21. **X2 button**
22. **PICTURE TONE adjustment knob**
    Adjusts playback picture only.
23. **TRACKING adjustment knobs**
    Use these knobs to adjust the picture if noise bars should appear on the screen.
    PLAY : For normal playback and × 2 playback
    SLOW/STILL: For slow and still picture
24. **AUTO FUNCTION selector**
    Refer to "PLAYBACK," page 8.
25. **AUTO RETURN button**
    Refer to "PROGRAMMABLE TIMER," page 12.
26. **Clock display, Programmable Timer control buttons**
    Refer to "SETTING THE CLOCK" and "PROGRAMMABLE TIMER," pages 7, 12.
27. **Tuning controls**
    Refer to "PRESETTING THE CHANNELS," page 8.
28. **TEST SIG switch**
    Refer to "ADJUSTING THE VIDEO CHANNEL," page 7.
29. **RF converter out channel adjuster**
    Refer to "ADJUSTING THE VIDEO CHANNEL," page 7.
30. **RF OUT terminal**
    Use the connector cable (provided) to connect the antenna terminal of the TV.
31. **ANTENNA IN terminal**
    Connect the antenna cable here.
32. **BEEPER switch**
    Turn on for audible signals whenever a button is pressed on the VCR or Remote Control unit.
33. **COLOUR MODE Selector**
    AUTO: For normal operation
    COLOUR: When receiving weak TV signals or playing back a poorly recorded tape.
34. **VIDEO IN/OUT terminals**
    Used to connect other video equipment.
35. **AUDIO IN/OUT terminals**
    Used to connect other audio equipment.
36. **Power cord**

REMOTE CONTROL UNIT



This unit allows you to control your VCR from a distance.

Point the unit at this position.

Loading Batteries

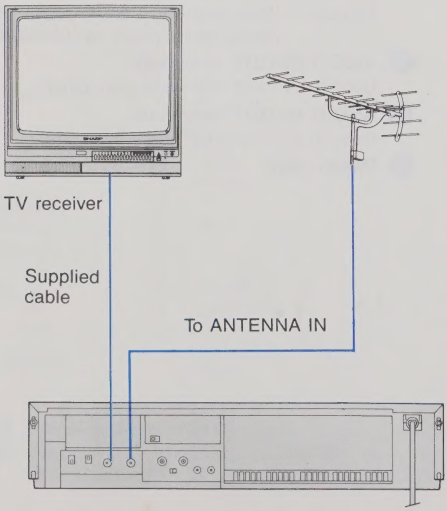
Use the included UM-4 batteries or equivalent replacements.

1. **Remove the rear cover.**
2. **Insert two batteries.**
3. **Replace the rear cover.**

Note

- Make sure that the batteries are inserted in the correct direction (+/− polarity).
- Do not mix old batteries with new ones, nor different types of batteries together.
- Exchange the batteries with new replacements if the previous batteries are exhausted or if the remote control unit has not been used for a long period of time.

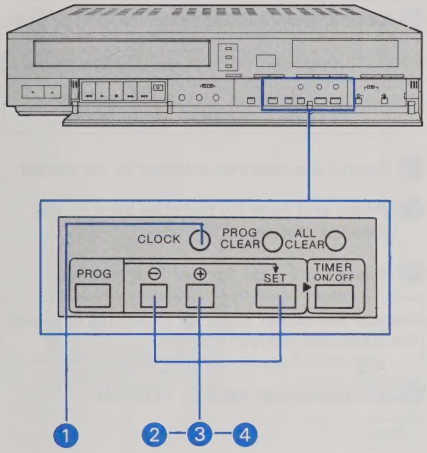
CONNECTION



Note

- The power cord should be connected last only after all other connections have been made.
- Please use a booster when signals are weak.

SETTING THE CLOCK



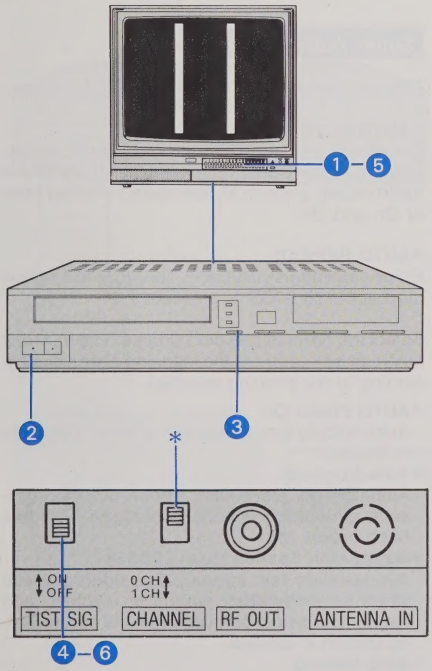
When the power cord is plugged in, the display flashes.

1. **Press CLOCK.**
2. **Press ⊕ or ⊖ to set the day of the week, then press SET.**
3. **Repeat the above to set the hour.**
4. **Repeat the above to set the minutes.**

Note

- If a problem occurs, press ALL CLEAR and repeat the above steps to reset the correct time.

ADJUSTING THE VIDEO CHANNEL



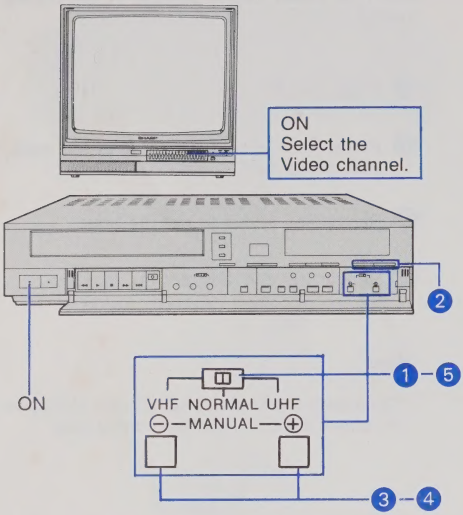
Video playback requires selection and setting of a special "video" channel. This video channel must be adjusted to the RF convertor output channel (factory preset to VHF channel 0).

1. **Select the video channel on the TV.** (Normally unused channel.)
2. **Press OPERATE to ON**
3. **Press to set the TV/VCR selector to VCR.**
4. **Set the TEST SIG switch to ON.**
5. **Adjust the TV channel so the test pattern is clear.**

* If a clear test pattern cannot be received, change the RF converter output channel to the other one. Then readjust the TV channel.

6. **Set the TEST SIG switch to OFF.**

PRESETTING THE CHANNELS



This VCR can be preset to receive 16 channels, 0 through 15.

1 Set the channels set switch to VHF or UHF.

Position	Reception Channels
VHF	VHF 0–11
UHF	UHF 28–69

2 Select the channel number to be preset.

3 Press and hold ⊕ or ⊖ to tune in the desired station.

4 Tap ⊕ or ⊖ for further fine tuning.

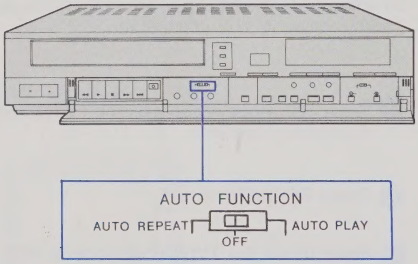
Repeat the above steps 1 through 4 to preset the additional channel numbers.

5 Set the switch back to NORMAL.

Note

- To remove the tuning control cover, push it up at the bottom and pull it.

PLAYBACK



	AUTO PLAY	AUTO REPEAT	OFF
Auto Power On	○	○	○
Auto Playback	○	○	○
ABSS	○	○	○
Auto Rewind	○	○	○
Auto Eject	○	—	—
Auto Power Off	○	—	—
Auto Repeat	—	○	—

Super Auto Functions

This unit features the following AUTO functions:

- **AUTO PLAY:**
Convenient for playing back prerecorded video cassettes. Simply insert a video cassette. The VCR will automatically perform all operations including Power On and Off.

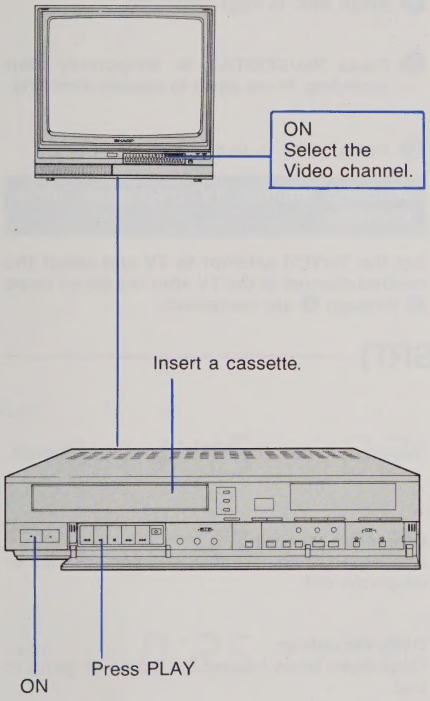
- **AUTO REPEAT:**
Enjoy continuous playback. The VCR will repeat playback until STOP is pressed.

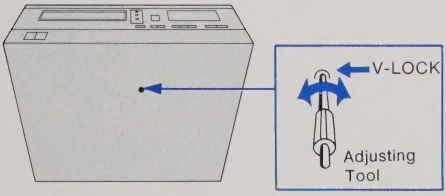
Select the position for your purpose. The VCR will automatically carry out the following operations according to the position selected.

- **AUTO Power On**
Automatically turns the power on when a cassette is loaded.
- **Auto Playback**
Automatically plays back any prerecorded cassette on which the erasure protection tab has been broken off.
- **Auto Blank Section Scan (ABSS)**
Automatically fast forwards the video cassette when an unrecorded portion is reached, and returns to playback function when the next recorded portion is located.
- **Auto Rewind**
Automatically rewinds the tape when the tape comes to an end, except for timer recording.

Note

- To playback a cassette which still has the erasure protection tab, simply press PLAY after the power comes on. All other AUTO PLAY and AUTO REPEAT functions will operate as usual after the tape is started.
- When the counter memory function is set and the VCR is in the rewind mode, the tape will automatically stop at "0000" regardless of the AUTO FUNCTION selector's position.





- **Auto Eject**
  Automatically ejects the cassette after Auto Rewind, when the AUTO PLAY position is set.
- **Auto Power Off**
  Automatically turns the power off after Auto Eject, when the AUTO PLAY position is set.
- **Auto Repeat**
  Automatically repeats Auto Playback and Auto Rewind when the AUTO REPEAT position is set.

Still Picture and Frame Advance

- Press PAUSE/STILL during playback for still picture.
- Press F. ADV during STILL mode for frame-by-frame advance.
- Press PAUSE/STILL again to resume normal playback.

Slow Playback

- Press SLOW for slow playback, during playback, still picture and video search.
- During slow playback, press + or − button to continually adjust playback speed from 1/8 to 1/30 speed playback.
- Press PLAY to resume normal playback.

Video Search

- Press either ▶▶ for forward search, or ◀◀ for reverse search during playback.
- Press PLAY to resume normal playback.

Double Speed Playback

- Press X2 during playback for double speed playback.
- Press PLAY during double speed playback to resume normal playback.

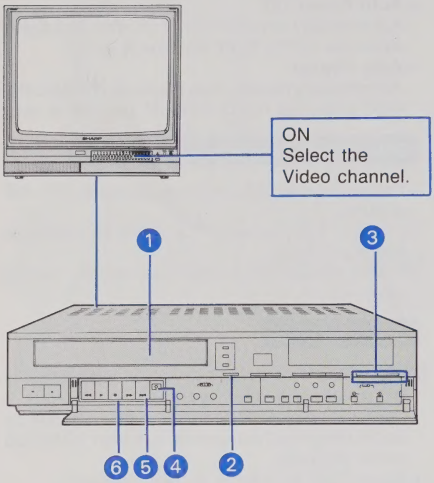
Tracking Adjustment

- Adjust the picture with the PLAY TRACKING adjustment knob if noise appears in the image during normal video playback, and × 2 speed playback.
- If noise appears in the still or slow picture, adjust the image with the SLOW/STILL TRACKING adjustment knob while in the slow playback mode.

Note

- Only cassettes recorded in the normal mode can be played back.
- There will be no sound during double speed playback.
- During double speed playback, the display mode will be the same as normal playback. However, the tape running display's flashing sequence will be faster.
- Depending upon the kind of TV or prerecorded tapes used, there may be a vertical jitter in the still mode.
  If this happens, adjust the V-LOCK on the bottom of the VCR with the supplied tool until the jitter becomes minimal.

RECORDING

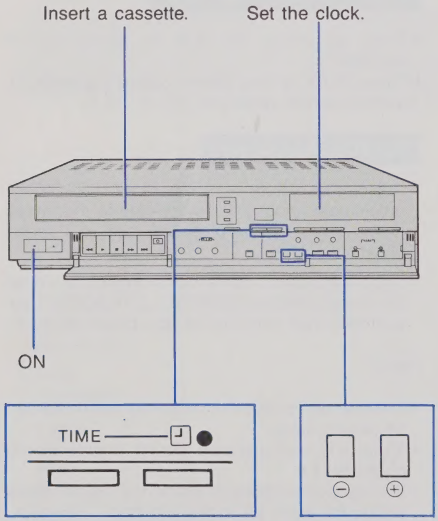


1. **Insert a video cassette. The power automatically comes on.**
2. **Set the TV/VCR selector to VCR.**
3. **Select the channel to be recorded.**
   - To record from an external source through the audio/video terminals, select AUX at the 16th position.
4. **Press REC to start recording.**
5. **Press PAUSE/STILL to temporarily stop recording. Press again to resume recording.**
6. **Press STOP to end recording.**

Watching another TV programme while recording.

Set the TV/VCR selector to TV and select the desired channel of the TV after the above steps 1 through 4 are completed.

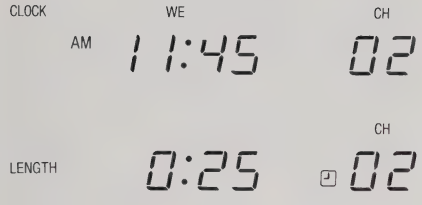
SIMPLE RECORDING TIMER (SRT)



Two ways to use this SRT for your convenience.

Immediate recording:
Convenient when having an unexpected visitor or telephone call.

Delay recording:
Convenient when leaving the house or going to bed.



Immediate Recording

Example:
Present time: 11:45 AM (Wednesday),
Channel: 2, Recording length: 0:25

1 Select the channel to be recorded.

2 Press ⏺ to start recording and to set the desired recording length.

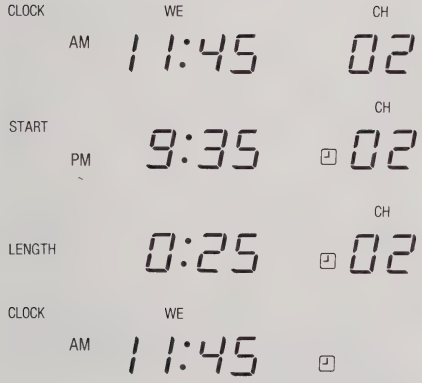
- Each time the button is pressed, the recording length is extended in the following order: 15, 30, 60, 90, 120, 180, 240 (minutes)
- Press ⊕ or ⊖ to adjust the minutes if necessary.

Note

- Press STOP to terminate recording.
- Immediate recording is possible only from the stop or recording modes if the clock has been set.

Delay Recording

Example:
Present time: 11:45 AM (Wednesday),
Channel: 2, Starting time: 9:35 PM,
Recording length: 0:25



1 Select the channel to be recorded.

2 Press TIME once and then press and hold to set the starting time.

- Setting the time within a 24-hour period in 10-minute intervals is possible.
- Press ⊕ or ⊖ to adjust the minutes.

3 Press ⏺ to set the recording length.

- Press ⊕ or ⊖ to adjust the minutes.

4 Press OPERATE to turn off.

Note

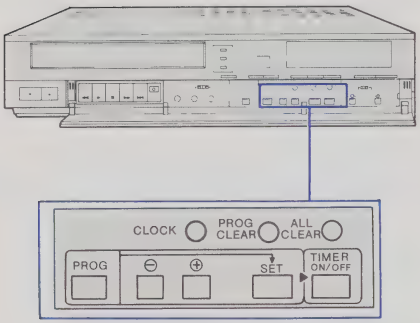
- After completing the above procedures, press AUTO RETURN if required. This will then rewind the video cassette to the beginning of the timer recorded programme as soon as it has been recorded. However, for Immediate Recording, press AUTO RETURN prior to Step 2.
- After the timer is set, the channel cannot be changed.
- Press TIME and ⏺ to confirm the starting time and the recording length.
- Press PROG CLEAR to clear the timer setting. (This is possible only when the power is on.)
- If the Programmable Timer and SRT are set at the same time, the latter will be cleared.
- When using SRT while the Programmable Timer is preset, be sure to press TIMER off.

PROGRAMMABLE TIMER

Auto Return Function

Using this feature, a programme recorded using the timer could be played back almost immediately after completing recording without the bother of having to rewind and search for the beginning.

- After programming the timer for recording, press the AUTO RETURN and TIMER buttons, which resets the counter to "0000". After timer recording finishes and if there are no other reserved timer recording programmes, the video cassette will be rewound to "0000" on the tape counter. It will then be ejected and the power will be turned off.



Note

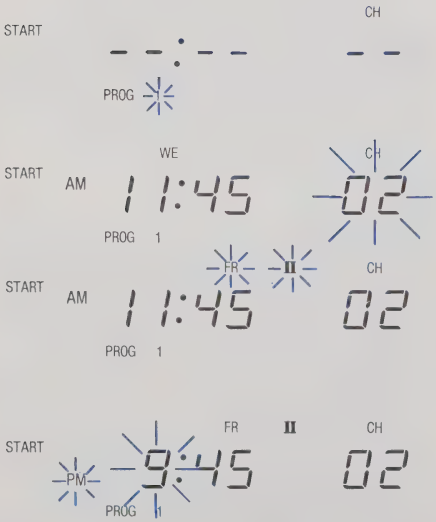
- If there are two or more programmes set for timer recording, the video cassette will be rewound to the beginning of the first programme as soon as the last programme has been recorded. However, this will not happen if the TIMER button is pressed before all the programmes have been recorded (i.e., to playback your first recording). To find the original starting point in this case, press the OPERATE button, the COUNTER MEMORY button and the REW button. The tape will then go back to "0000". After playing back the recorded portion of the preset programme(s), press the TIMER button again so that the VCR will automatically return to the beginning of the remaining portion of the preset programme(s) after it has been recorded.
- Auto Return will not function if the video tape runs out before recording the desired programme completely.

Setting the Programmable Timer

This VCR can be programmed to record up to four programmes, two weeks in advance. Daily and Weekly programmes can also be programmed and recorded.

Example:

Present time:	11:45 AM (Wednesday)
Programme number:	1
Channel:	2
Starting time:	9:30 PM (Friday week)
Recording length:	1:30



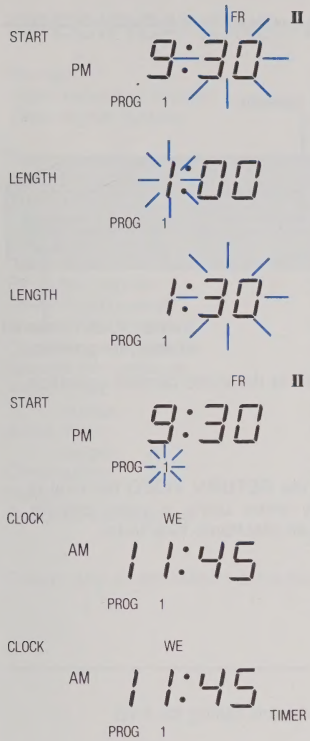
1. **Press PROG to select the programme number.**

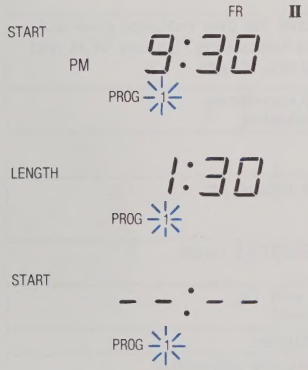
2. **Press SET, and press ⊕ or ⊖ to select the channel to be recorded. For recording an external source from the audio/video terminals on the rear panel, select AUX at the 16th position with ⊕ or ⊖.**

3. **Press SET, and press ⊕ or ⊖ to select the day of the week.**
   I: First week II: Second week

   For daily or weekly programming, select DAILY or WEEKLY and the desired day with ⊕ or ⊖.

4. **Press SET, and press ⊕ or ⊖ to set the hour of the starting time.**





5 **Repeat the above to set the minutes of the starting time.**

6 **Repeat the above to set the hour of the recording length.**

7 **Repeat the above to set the minutes of the recording length.**

8 **Press SET.**
- The programming is now complete. The actual time will be displayed in 10 seconds.

For additional programmes, repeat steps 1 through 8.

9 **Press the AUTO RETURN button if rewinding is desired to the start of the timer recorded programme.**

10 **Press TIMER.**
(The power will turn off automatically.)

Confirming and Clearing the Programme

Confirming

1 **Press PROG to select the desired programme number and to confirm the day, starting time, and channel.**

2 **Press PROG again to confirm the recording length.**

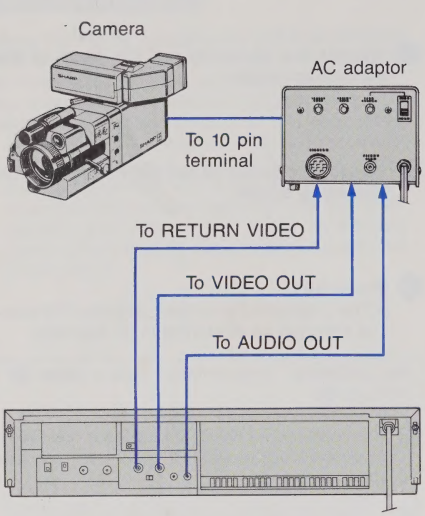
Clearing

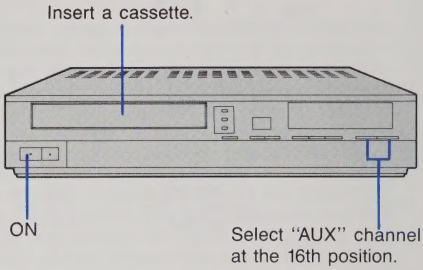
Repeat the above steps and press PROG CLEAR to erase the contents.

Note

- When setting the programme, make sure that TIMER is off.
- Timer is not effective without setting the recording time or being set to "0:00".
- When two programmes are set at the same starting time, the lower-numbered programme will be recorded.

RECORDING WITH A VIDEO CAMERA





- For details, refer to the video camera operation manual.

Note

- Connection to the RETURN VIDEO terminal is only necessary when using a video camera equipped with an electronic viewfinder.

BEFORE CALLING FOR SERVICE

Many problems do not require a serviceman. Refer to the table below before calling for help.

Problem	Cause
• OPERATE will not function. • Cannot eject the cassette.	• TIMER is on.
• Power on but VCR does not run.	• Dew has formed. Wait until the dew indicator goes out. • Safety device in VCR is functioning. Unplug VCR and plug in again after about one minute.
• Recording is not possible	• TV antenna not properly connected. Channels not properly adjusted.
• Timer recording not possible.	• Clock is not set. • TIMER is off.
• Cassette is automatically ejected when pressing REC ⏺ or TIMER.	• Erasure protection tab is broken off.
• REC and PLAY cannot be operated.	• The VCR is in the PAUSE/STILL mode.
• Playback not possible	• Not properly connected with TV. • TV not set to video channel.
• Noise bars in playback image	• Tracking not properly adjusted.
• Snow in playback image	• TV video channel not properly adjusted. • The heads may be soiled by condensed moisture or the magnetic coating of the video tape. (If this is the case, the heads need to be cleaned. Ask a qualified dealer or service centre.)
• Remote control not possible	• The remote control unit is too far away from the main unit. • The remote control unit is not pointed correctly at the photoreceptor window. • The batteries are exhausted. • The batteries have not been inserted in the correct direction (+/− polarity).

SPECIFICATIONS

Format:	VHS PAL standard
Video recording system:	Two rotary head, helical scan
Video signal system:	PAL colour or monochrome signals; 625 lines
Playing time:	240 min. with E-240 video cassette
Tape width:	12.7 mm
Tape speed	23.39 mm/sec.
Antenna:	75 ohm, unbalanced
Reception channels:	VHF channel 0 ~ 11 UHF channel 28~69
RF output signal:	VHF channel 0 or 1 (preset to 0)
Power requirement:	AC 240V, 50Hz
Power consumption:	33 W (approx.)
Operating temperature:	5°C to 40°C
Storage temperature:	−20°C to 55°C
Video input:	1.0 Vp-p, 75 ohm
output:	1.0 Vp-p, 75 ohm
Audio input:	Line: −8 dB, more than 50 kohm
output:	Line: −5 dB, less than 1 kohm
Dimensions:	430 (W) × 345 (D) × 93 (H) mm
Weight:	6.5 kg (approx.)
Supplied accessories:	75-ohm coaxial cable, Operation Manual, Adjusting tool, Remote control unit, UM-4 battery×2, video cassette tape

Design and specifications are subject to change without notice.

SHARP CORPORATION

Osaka,Japan

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